

## ACTIVE CARBON BLOCK FILTER

Patent Number: **JP11156344**  
Publication date: **1999-06-15**  
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Requested Patent:  [JP11156344](#)  
Application: **JP19970343695**  
Priority Number(s):  
IPC Classification: **C02F1/28**  
EC Classification:  
Equivalents:

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### Abstract

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**PROBLEM TO BE SOLVED:** To easily develop micropores at a low cost by executing a press molding step, burning it to obtain mold strength, and spraying active carbon particles together with high pressure water onto inner and outer surfaces of an active carbon block filter which has a compact surface produced by the press molding step so as to destroy a compact layer and to develop micropores.

**SOLUTION:** An active carbon block 1 is produced by kneading fine powdery active carbon and clay with water, granulating it and molding a filter by a friction pres and burning it to obtain an unglazed pottery work, which has a compact layer formed on a face in contact with a press mold. In order to develop micropores under the compact layer, the compact layers of an outer face 2 and an inner face 3 are destroyed by spraying active carbon particles with high pressure water and crushed particles are blown off and cleaned up by pressurized air. For spraying the active carbon particles, a top cup type spray gun is used and a long nose type is used for the inner surface 3 and preferably the block 1 is sprayed while being rotated at a speed of one revolution per minute at an angle approximately 1 to 2 mm inside from a vertical direction on a side.

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